## Chapter 1: Summary Tigard Transportation System Plan

## Master Plan for the next 20 years





Tigard
Transportation System Plan

### What is a TSP?

- Blue print for Transportation Investment
- Enables City to make prudent and effective choices regarding land use
- Coordination tool with regional and nearby agencies
- Fulfills State mandate (Goal 12) & RTP
- Addresses Existing and Future needs



## Why do a plan now?

- To get ready for the future Now
- Growth
  - Forecasts call for 6,000 more Dwelling Units and 15,000 more employees in the next 20 years
- Metro RTP completed in 2000
- State Requirements (new highway plan)
- New Funding Opportunities

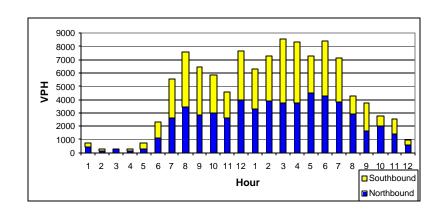


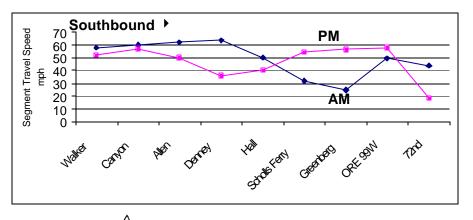
## **Report Organization**

- Existing Conditions and Forecasting
- Policy
- Future Demand
- Modal Chapters
  - Pedestrians, Bicycles, Transit, Motor Vehicles
  - Transportation Demand Management, Rail, Freight
- Funding



## **Existing Conditions**





**OREGON** 

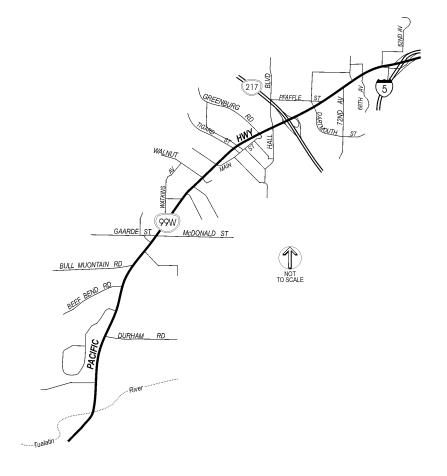
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- City generates 35,000
   PM hour vehicle trips
- ORE 99W and Scholls Ferry ~ 50,000 /day
- Much through traffic in Tigard
- It takes 5-20 minutes to get across Tigard
- Scholls Ferry has the highest collision rating
- 22 intersections near/at capacity in PM peak

## **Existing Conditions**

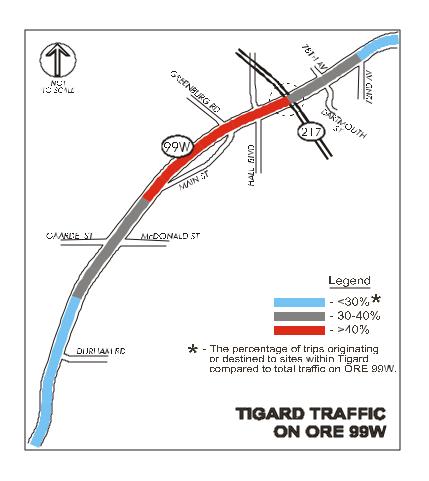
### Key bottlenecks today:

- ORE 99W/McDonald
- ORE 99W/Hall-Greenburg
- Hall/McDonald
- Scholls Ferry/Nimbus
- Scholls Ferry/Hall
- I-5/Carman Interchange





### Where Does Traffic on ORE 99W Go?



- Throughout Tigard, ORE 99W carries about half Tigard traffic, half through traffic
- I-5 to ORE 217 linkage is significant
- No alternative route for corridor travel



## **Existing Pedestrian/Bicycles**

#### Bicycles

- No continuous network in Tigard
- Peak bicycle volume in the10 to 15 per hour range
- Most bicycle lanes have been added in last 10 years

#### Pedestrian

- Significant gaps in sidewalk system
- Few interconnected locations linking to schools, retail, parks, transit
- Peak hour pedestrianvolumes heaviest along ORE99W
- Most peak hour pedestrain volumes below 50 per hour



## **Existing Transit**

- Significant bus service in Tigard
- 9,500 daily bus Tigard bus trips
- Transit Centers are most active transit stops in Tigard
- Western Tigard and north of Durham area only areas without quarter mile access to buses



### **TSP Task Force**

- Planning Commission
- Business/Chamber
- Bicycle/Transit involvement
- Technical Advisory Committee with local jurisdictions



## **Transportation Goals**

- Livability
- Balanced Transportation System
- Safety
- Performance
- Accessibility
- Goods Movement
- Coordination



### **Future Travel Forecast**

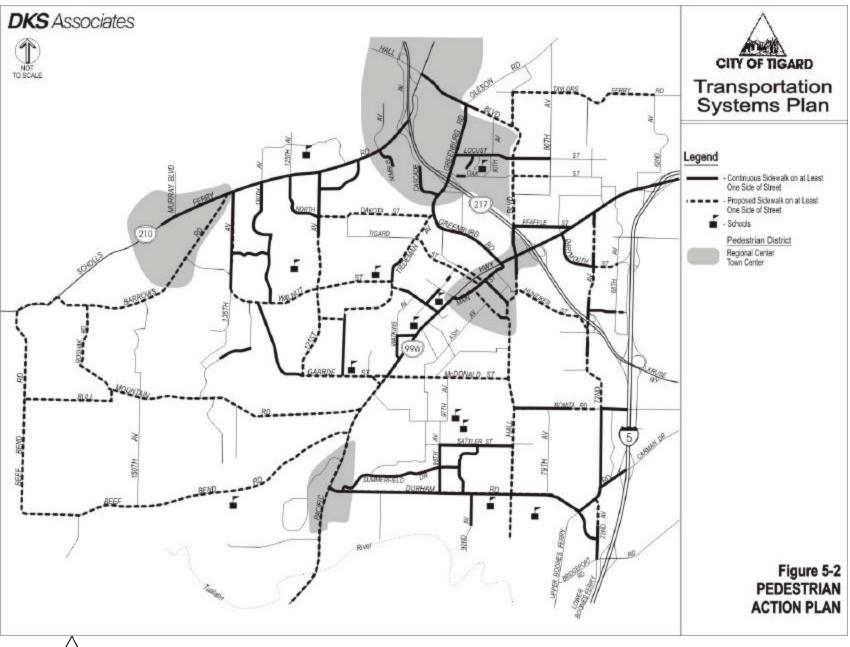
- Based upon regional travel modeling
  - Assessed both 2015 and 2020 forecasts
- Disaggregated Tigard into nearly 200 Transportation Analysis Zones
- Looked at build out condition in Tigard
- Established a modified 2015 forecast that resulted in 8% greater vehicle trip generation in Tigard than 2020



### **Pedestrian Plan**

- Top Strategies
  - Fill in gaps in network
  - Link to schools, parks, recreation, activity centers, transit
- Establish Pedestrian Districts
  - Regional Center
  - Town Centers
- Minimum five feet
- Complimenting Land Use Actions







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#### **Pedestrian Action Plan Project List**

	Project	From	То	Cost
Н	North Dakota Street	121 <sup>st</sup> Avenue	Greenburg Road	\$230,000
Н	McDonald Street	ORE 99W	Hall Boulevard	\$200,000
Н	Tiedeman Avenue	Walnut Street	Greenburg Road	\$350,000
Н	Oak Street (RTP 6019)	Hall Boulevard	80 <sup>th</sup> Avenue	\$500,000
Н	ORE 99W	McDonald Street	South City Limits	\$500,000
M	Bull Mountain Road	ORE 99W	Beef Bend Road	\$1,200,000
M	Roshak Road	Bull Mountain Road	Scholls Ferry Road	\$300,000
M	121st Avenue	Gaarde Street	North Dakota Street	\$450,000
M	Hunziker Street	Hall Boulevard	72 <sup>nd</sup> Avenue	\$250,000
M	Washington Square Regional Center	Pedestrian Improvements (RTP 6022)		\$6,000,000
L	Taylor's Ferry Rd	Washington Drive	62 <sup>nd</sup> Avenue	\$1,000,000
L	Washington Drive	Hall Boulevard	Taylor's Ferry Road	\$200,000
			Subtotal	\$11,800,000
Sidewalks to be built with Street Improvements				
Н	Bonita Road	West of 72 <sup>nd</sup> Avenue	72 <sup>nd</sup> Avenue	\$50,000
Н	Walnut Street	135 <sup>th</sup> Avenue	Tiedeman Avenue	\$570,000
Н	Gaarde Street	Walnut Street	ORE 99W	\$620,000
Н	Hall Boulevard	Scholls Ferry Road	Pfaffle Street	\$1,000,000
Н	Dartmouth Street	72nd	68th Avenue	\$120,000
Н	Tigard Street	115th Street	Main Street	\$350,000
Н	Burnham Street	Main Street	Hall Boulevard	\$100,000
Н	Fonner Street	walnut Street	121st Avenue	\$250,000
Н	Commercial Street	Main Street	Lincoln Street	\$50,000
M	72 <sup>nd</sup> Avenue	ORE 99W	Bonita Road	\$1,200,000
M	Hall Boulevard	North of Hunziker Street	South City Limits	\$670,000
M	Beef Bend Road	ORE 99W	Scholls Ferry Road	\$1,000,000
M	Barrows Road	Scholls Ferry Road (W)	Scholls Ferry Road (E)	\$950,000
L	72 <sup>nd</sup> Avenue	Carman/Upper BoonesFry.	Durham Road	\$250,000
			Subtotal	\$7,180,000
	Annual Sidewalk Program at \$50,000 per year for 20 years			\$1,000,000
			Action Plan Total	\$19,360,000

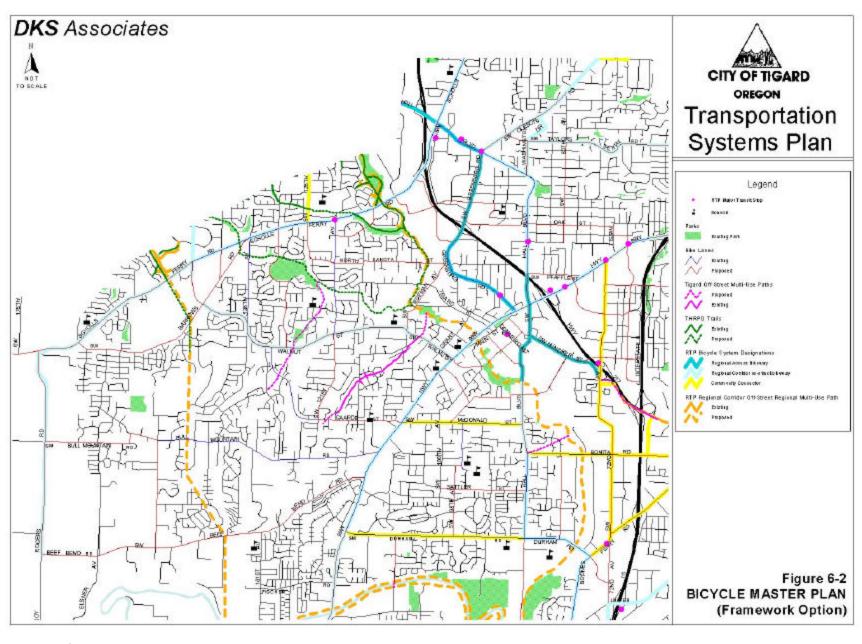


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## Bicycle Plan

- Key Strategies
  - Fill in gaps in bicycle network
  - Connect to key activity centers, schools, parks
- Coordinated with adjacent jurisdictions
- Selected Framework Alternative
- Major Trails:
  - Loop Fanno/Tualatin/Power
  - Tualatin River Crossing
  - Link to I-5/ORE 217 overcrossing







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**Bicycle Action Plan Improvement List and Cost** RANK\* To **Project** Cost From 72<sup>nd</sup> Avenue Η Hunziker Street Hall Boulevard \$250,000 Bonita Road 72<sup>nd</sup> Avenue West of 72<sup>nd</sup> Ave. \$50,000 Η Η **Burnham Street** Main Street Hall Boulevard \$135,000 Η Oak Street (RTP 6019) Hall Boulevard 90<sup>th</sup> Avenue \$300,000 98th Avenue Murdock Stret **Durham Road** \$275,000 Η Η 92<sup>nd</sup> Avenue **Durham Road** Cook Park \$270,000 Η Tiedeman Avenue Greenburg Road Walnut Street \$250,000 121st Avenue M Walnut Street Gaarde Street \$400,000 L Taylor's Ferry Road Washington Drive \$500,000 City Limits L Washington Drive Hall Boulevard Taylor's Ferry Rd \$100,000 L O'Mara Street McDonald Street Hall Boulevard \$275,000 L ORE 99W Frewing Street O'Mara Street \$150,000 \$2,955,000 **Subtotal** Η Gaarde Street Walnut Street ORE 99W \$600,000 Scholls Ferry Road Η Hall Boulevard Locust Street \$500,000 Η Greenburg Road Hall Boulevard Cascade Avenue \$300,000 ORE 99W South City Limits \$1,300,000 Η **East City Limits** 72<sup>nd</sup> Avenue ORE 99W South City Limits M \$960,000 M Hall Boulevard Pfaffle Street Bonita Road \$550,000 M Carman Drive I-5 Durham Road \$200,000 M Walnut Street ORE 99W Barrows Road \$1,400,000 **Barrows Road** Scholls Ferry Road (W) Scholls Ferry Rd. (E) \$900,000 M L Bull Mountain Road 150<sup>th</sup> Avenue Beef Bend Road \$550,000 L Beef Bend Road ORE 99W Scholls FerryRd. \$1,600,000 Subtotal \$8,860,000 **Multi- Use Pathways** Linkage to Kruse Way Trail in Lake Oswego Η Hunziker Link to LO \$500,000 Fanno Creek Trail Tualatin River to City Hall, ORE 99W to Tigard \$3,600,000 M Tualatin River Trail Adjacent to Cook Park from Powerlines to Fanno M \$2,600,000 M Tualatin River Crossing Near 108th Avenue \$3,000,000 From Beaverton to Tualatin River Trail L Powerlines Corridor \$2,500,000 Subtotal \$12,200,000



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**Action Plan Total** 

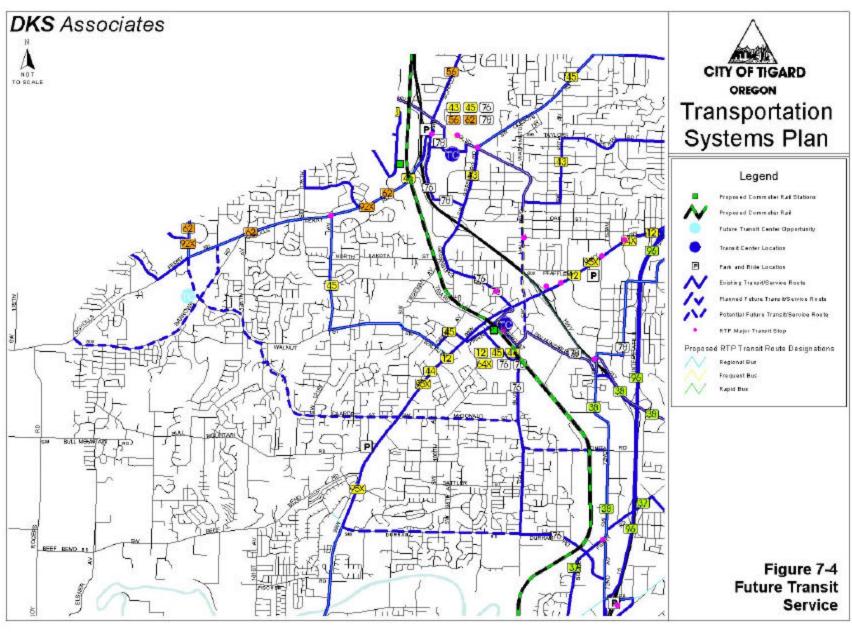
**DKS** Associates

\$24,015,000

### **Transit Plan**

- Key Strategies
  - Commuter Rail
  - Provide more frequent service, more hours of day
  - Express routes
  - Circulator Service in Tigard
  - Transit Amenities
- New Transit Center at Murray/Scholls
- New Service Coverage: Durham/ Gaarde/Barrows/Bonita/Hall
- Complimentary Land Use Actions
  - Transit Center/Rail Station Development

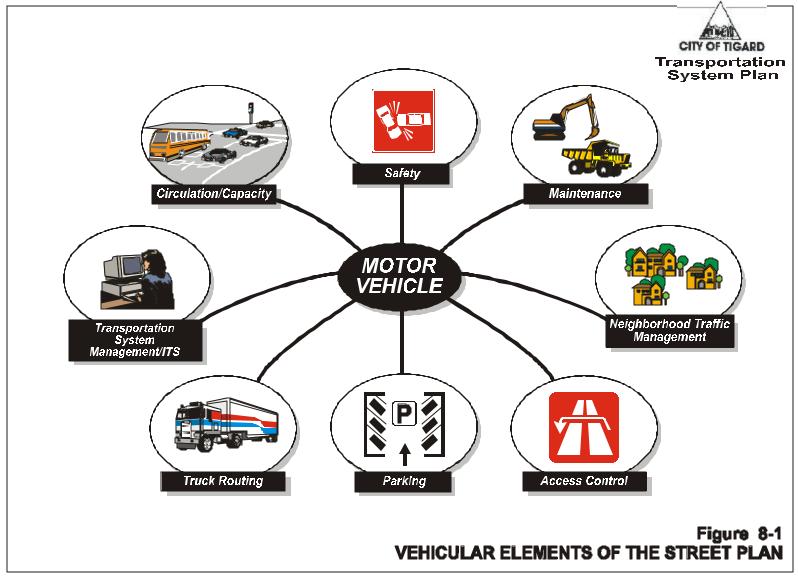






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### **Motor Vehicle Plan**





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### **Functional Classification**

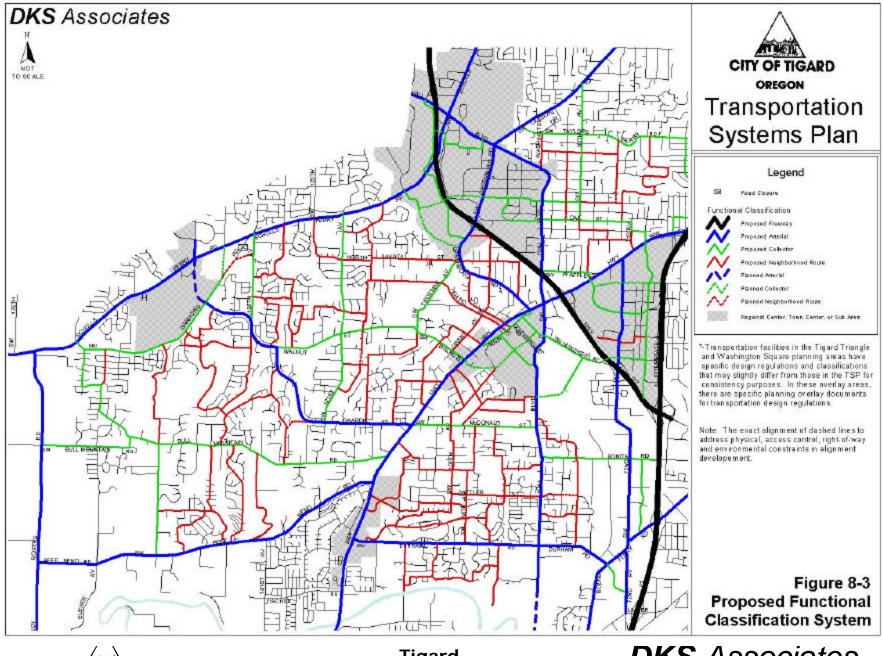
#### **CLASSIFICATION**

- Freeways
- Principal Arterials
- Arterials
- Collectors
- Neighborhood
- Local

#### **EXAMPLE**

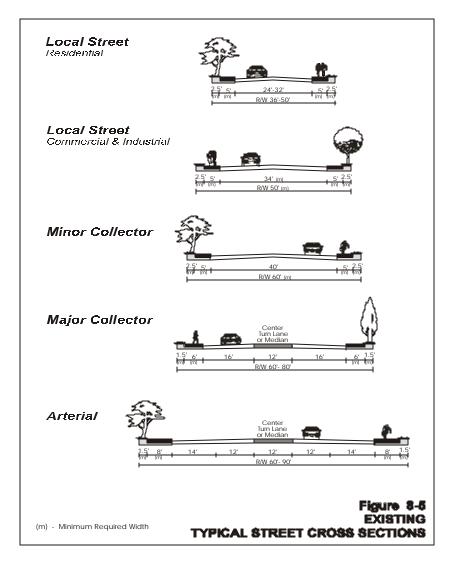
- I-5/ORE 217
- ORE 99W/Scholls
- Hall/Gaarde/Durham
- Walnut/Bull Mountain
- 130th/Watkins
- Cul-de-sacs/ redundant streets

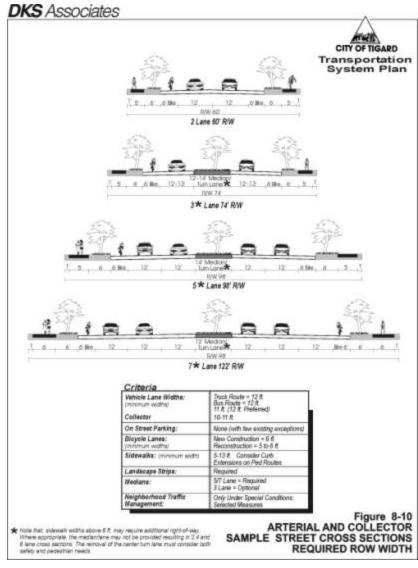






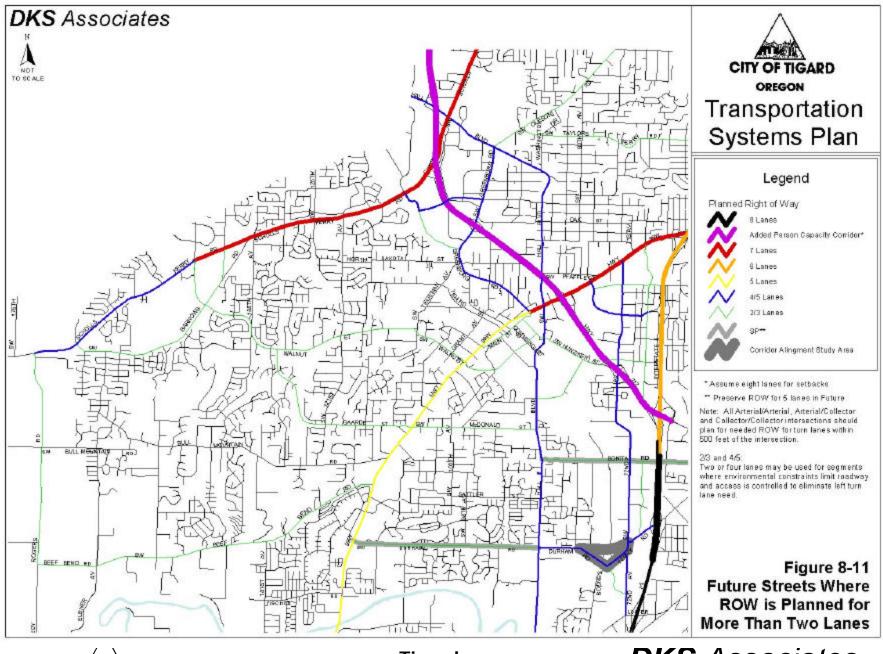
Tigard Transportation System Plan







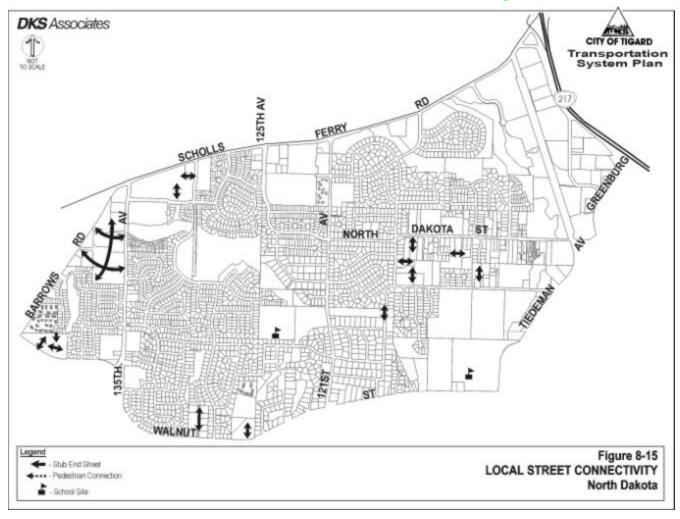
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## Local Connectivity Plans North Dakota Example





## Capacity and Circulation Key Issues

- ORE 217 and I-5 are over capacity
- Tigard serves more ORE 99W through traffic in future
- ORE 99W fails in future
- Half of the traffic signalized intersection fail in 20 years assuming no improvements are made



## **Key Solution Concepts for Tigard**

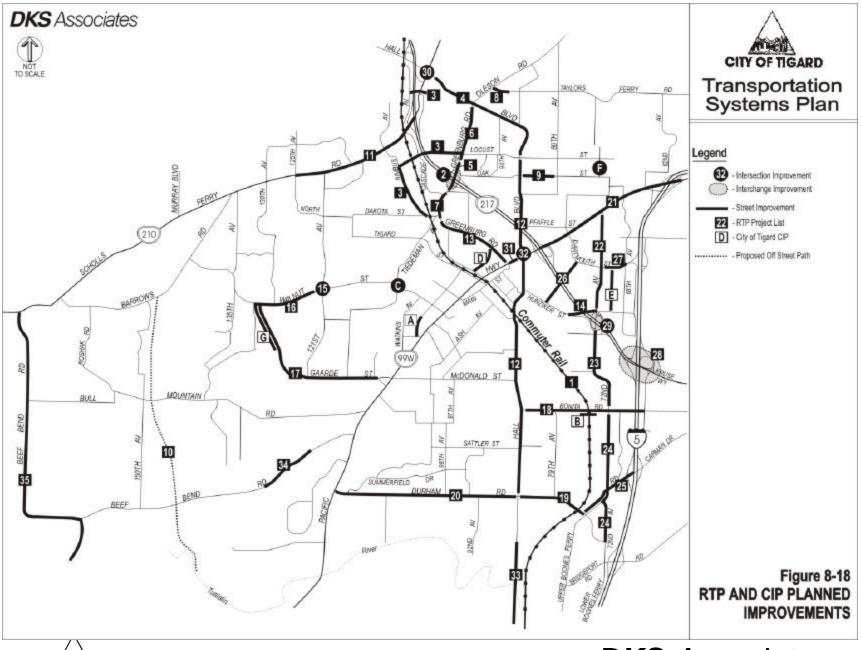
## Connectivity/Circulation Enhancement

- Washington Square
- Tigard Triangle
- Western Tigard
- East/West

## Traffic Operational Improvements

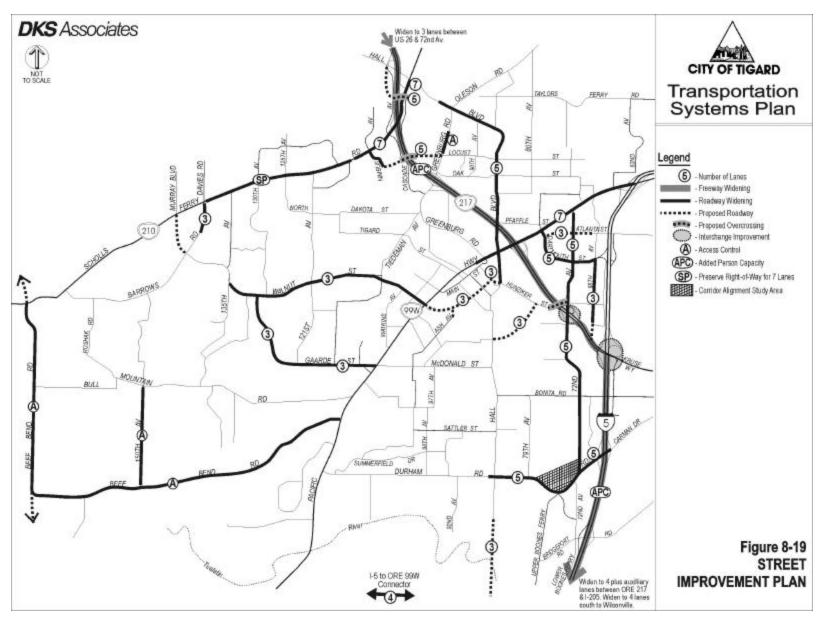
- Street Improvement Plan
- Intersection capacity upgrades





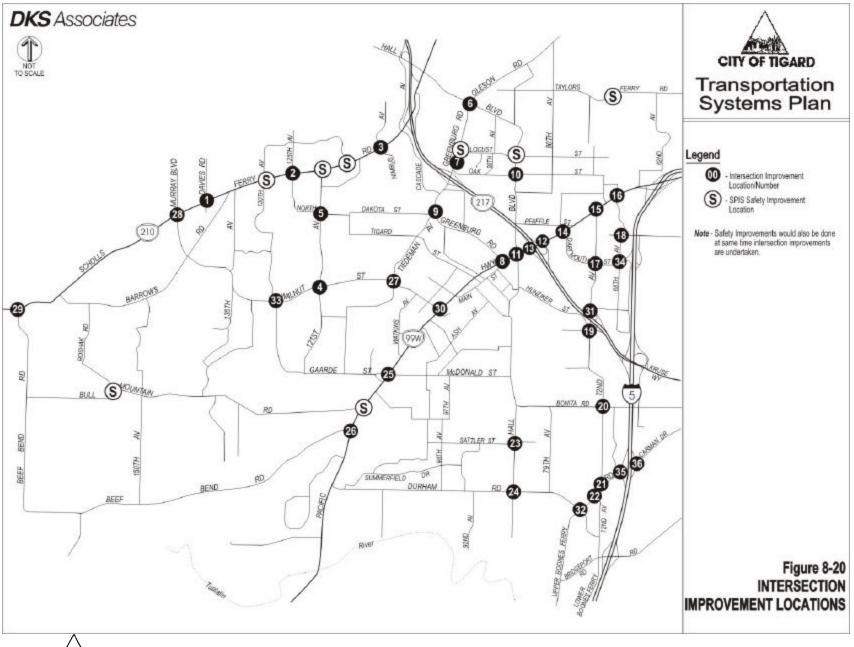


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# Recommendations in the following areas:

## Traffic Signals

- Master Plan
- Coordination
- ITS

## Safety

Upgrade record keeping to focus on hot spots

## Access Management

- ORE 99W
- Beef Bend
- 150th



## More Motor Vehicle Recommendations

#### Maintenance

- Continue Pavement Management System
- Fund program to get rid of pavement reconstruction backlog

## Neighborhood Traffic Management (NTM)

- Continue current city program
- Incorporate NTM into new land use/road approvals

## Parking

- Metro Maximums already adopted into code
- Intelligent Transportation Systems



## More Motor Vehicle Recommendations

#### Trucks

- Route map
- Truck Friendly design

## Key Implementation Items

- Access Spacing, Traffic Signal Spacing
- Level of Service
- Street spacing/local connections
- Neighborhood Impact
- School Access Impact
- Mixed Use Determination



### Other Modes in TSP

- Rail
- Air
- Water
- Pipeline
- Freight



### **TDM Plan**

- Coordinate with Regional ECO programs
- Encourage the development of high speed communication to residents and businesses
- Mixed uses
- Park-and-ride



## **Preliminary Cost Summary**

Modes 20 year Costs

Motor Vehicle: ODOT \$900 M

Motor Vehicle: City \$250 M

Maintenance \$45 M

Commuter Rail \$75 M

Bicycle \$25 M

Pedestrian \$13 M



## Why are these estimates so large?

#### **Motor Vehicle**

- Significant new roadway connections and widenings
- Major regional needs in the vicinity of Tigard

#### <u>Ped/Bike/Transit</u>

- Commuter Rail
- Significant right-ofway and topography to establish bike lanes and sidewalks
- Lack of on-going programs for sidewalks,TDM, Traffic Signals



## Potential Transportation Funding

- Over 20 years current programs would only fund \$250,000,000
- Substantial shortfall due to regional nature of improvements
- Key sources of future funds:
  - Bond Measures (local, MSTIP, regional)
  - Increase existing fees commensurate with needs (SDC)
  - Focus on high priority needs
  - Exactions
  - Roadway pricing



## Steps Taken So Far to Get Here

- TSP Task Force Approved TSP Spring 2000
- Planning Commission Approved TSP Winter 2000
- CIT & Public Open Houses- Nov 2000
- City Council Workshops- Nov 2000, March 2001, November 2001
- City Council Adoption Early 2002



### **How Can Your Comments be heard?**

- Comment on specific details of the draft plan and provide recommendations
- Attend hearings
- Review report on the web (www.ci.tigard.or.us)
- Call (639-4171), write or email the City
- Julia Hajduk (julia@ci.tigard.or.us)
- Gus Duenas (gus@ci.tigard.or.us)

